

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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indicate that they were considered by making appropriate notations on the attached PTO 1449 form.


N/A: English translations of the non-English documents are attached.

___ The following is a concise statement of the relevance of the non-English language documents.

___ In lieu of a statement of relevance or translation of the non-English language documents, an English language version of a search report from a foreign patent office in a corresponding application citing these documents and setting forth the relevance thereof is enclosed.

This submission does not represent that: (i) Applicant has read or analyzed any of the documents cited herein, except as otherwise provided; (ii) a search has been conducted; (iii) that no other documents exist which may be material to the examination of this application exist; or (iv) that any of the listed documents, or any part thereof, are material or constitute prior art under title 35 of the United States Code. Applicant reserves the right to present evidence and arguments to counter an assertion that any such documents are prior art, and/or to establish the patentability of the claimed invention.

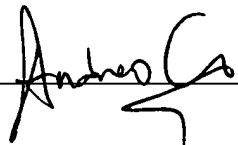
Respectfully Submitted,

BY: 

Eric P. Mirabel
Reg. No. 31,211
Bioarray Solutions, Ltd.
35 Technology Drive
Warren NJ 07059
(908) 226 8200 (ext 203)

Applicants) hereby petitions for any extension of time or for any other grounds needed to make this submission timely and proper. The Commissioner is hereby authorized to charge any fees due in connection with this submission and not otherwise covered by payment included herewith, or to credit any overpayment, to Deposit Account No. 502088.

I hereby certify that, on the date indicated below, this correspondence and all attachments indicated herein are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450

By: 

Date: 8/20/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 OF 11

Complete if Known

Application Number: 09/768,413

Filing Date: 1/24/01

First Named Inventor: M. Seul, et al.

Group Art Unit: 1743

Examiner Name:

Attorney Docket Number: PARSE - Con 1

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
	5,723,233		Garza et al.	2/1996
	4,806,776		Kley	8/1985
	6,141,046		Roth et al.	10/31/2000
	6,018,350		Lee, et al.	1/25/2000
	6,023,590		Abe, et al.	2/8/2000
	6,025,905		Sussman	2/15/2000
	6,123,263		Feng	9/26/2000
	6,151,062		Inoguchi et al.	11/21/2000
	3,948,525		Cuglia	12/1976
	3,983,182		Hogg	8/1976

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			

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Examiner Signature		Date Considered	
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Notice of References Cited

Application/Control No.

09/768,419

Applicant(s)/

Reexamination
SEUL, MICHAEL

et al.

Examiner

AUG 22 2003

Art Unit

1743

Page 2 of 12

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,747,349	05-1998	van den Engh et al.	436
	B	US-5,900,481	05-1999	Lough et al.	536
	C	US-6,133,436	10-2000	Koster et al.	536
	D	US-6,084,991	07-2000	Sampas	382
	E	US-5,442,246	06-1995	Koopal et al.	435
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 99/18434	04/15/99	PCT		
	O	WO 99/19515	04/22/99	PCT		
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
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* A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket: PARSE - 1001	Serial No: 6917003
Applicant: Seul et al.	
Filing Date: 1/24/01	Group Art Unit: 1 1743

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

	Materials from Freedom of Information Act pertaining to David R. Walt

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Examiner	Date Considered
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

Sheet 4 of 12

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: PARSE - con1		SERIAL NO.: 09/768								
				APPLICANT(S): SEUL, Michael et al.										
				FILING DATE: 1/24/01		GROUP: TC 1700 (74)								
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)														
U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	4	4	9	8	0	5	2	2/12/85	Fulwyle	422	52	8/30/82	
	AB	4	6	4	7	5	4	4	3/3/87	Nicoli et al.	436	518	6/25/85	
	AC	4	8	2	2	7	4	6	4/18/89	Walt	436	528	6/25/86	
	AD	4	9	8	4	3	7	3	2/19/91	Stavrianopoulos et al.	435	6	7/20/89	
	AE	5	0	0	2	8	6	7	3/26/91	Macevitz	435	6	10/24/88	
	AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88	
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	359	368	1/10/91	
	AH	5	1	1	4	8	6	4	5/19/92	Walt	436	528	9/19/89	
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	436	501	11/13/89	
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.09	9/4/90	
	AK	5	1	4	3	8	5	3	9/1/92	Walt	436	501	2/2/89	
FOREIGN PATENT DOCUMENTS														
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	AL	0	2	8	9	7	6	4	6/8/88	EP	C12Q	1/68		X
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	AN	0	7	2	3	1	4	6	7/24/96	EP	G01N	21/64		X
	AO	8	9	1	1	1	0	1	11/16/89	PCT	G01N	33/546		X
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/536		X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)												
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).												
	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).												
EXAMINER										DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														

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Sheet 5 of 12FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.: PARSE-CON1SERIAL NO.: 091768,413

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 1/24/01GROUP: 1743

U.S. PATENT DOCUMENTS

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TC 1743

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5	1	9	4	3	0	0	3/16/93	Cheung	427	213.31	11/8/89
	BB	5	2	4	4	8	1	3	8/14/93	Walt et al.	436	172	4/20/92
	BC	5	2	4	4	6	3	6	9/14/93	Walt et al.	422	82.07	1/25/91
	BD	5	2	5	0	2	6	4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5	2	5	2	4	9	4	10/12/93	Walt	436	528	3/30/92
	BF	5	2	5	4	4	7	7	10/19/93	Walt	436	172	9/19/91
	BG	5	2	9	8	7	4	1	3/29/94	Walt et al.	250	227.23	1/13/93
	BH	5	3	0	6	6	1	8	4/26/94	Prober et al.	435	8	1/16/92
	BI	5	3	2	0	8	1	4	6/14/94	Walt et al.	422	82.07	11/25/92
	BJ	5	3	6	2	6	5	3	11/8/94	Carr et al.	436	165	5/6/92
	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	436	523	2/25/93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	BL	9	3	0	6	1	2	1	4/1/93	PCT	C07H	21/00		X
	BM	9	3	2	4	5	1	7	12/9/93	PCT	C07K			X
	BN	9	7	1	4	0	2	8	4/17/97	PCT	G01N	15/10		X
	BO													
	BP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BQ	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
BR	Campian, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis. Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).

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DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet No. 7 of 12FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.: PARSE-CONSERIAL NO.: 01/763,417

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 1/24/01

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5	6	9	0	8	9	4	11/25/97	Pinkel et al.	422	68.1	5/23/95
	DB	5	7	0	0	8	9	7	12/23/97	Klainer et al.	528	15	5/30/95
	DC	5	7	7	9	9	7	6	7/14/98	Leland et al.	422	52	6/5/95
	DD	5	9	3	9	0	2	1	8/17/99	Hansen et al.	422	55	1/23/97
	DE	5	9	6	1	9	2	3	10/5/99	Nova et al.	422	68.1	9/30/96
	DF	5	9	6	5	4	5	2	10/12/99	Kovacs	436	149	7/9/96
	DG	6	0	4	8	8	9	0	4/11/00	Heller et al.	435	8	5/14/97
	DH	6	0	9	0	5	4	5	7/18/00	Wohlstadter et al.	435	8	3/6/97
	DI	6	0	9	0	9	1	2	7/18/00	Lebl et al.	530	300	11/23/98
	DJ	6	2	0	0	7	3	7	3/13/01	Walt et al.	430	320	8/24/95
	DK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	DL													
	DM													
	DN													
	DO													
	DP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DQ	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)
DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMetrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).
DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.:

SERIAL NO.

LIST OF PRIOR ART CITED BY APPLICANT

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09/168,413

APPLICANT(S): SEUL, Michael

et al.

FILING DATE: 4/24/01

GROUP: 1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
	EB						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	EL							
	EM							
	EN							
	EO							
	EP							

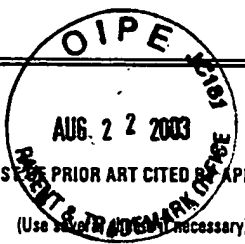
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
ES	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449
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U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.: 1997-0006 CORN

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LIST OF PRIOR ART CITED BY APPLICANT

(Use separate sheet if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

1/24/01

GROUP: 1743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BG							
	BH							
	BI							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 706-709 (1996)
BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 476-483 (1995)
BL	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 467-470 (1995)
BM	Haab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3258 (1995)
BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)
BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1981)
BP	
BQ	
BR	

SEP 12 2003
GROUP 1700

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449
(REV. 7-80)

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SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use separate sheet if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE:

GROUP:

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3	9	9	8	5	2	5	12/21/76	Giglia	350	160	08/21/75
	AB	4	0	7	5	0	1	3	02/21/78	Ward et al.	96	1.5	09/13/76
	AC	4	4	5	6	5	1	3	06/26/84	Kawai et al.	204	180	08/25/82
	AD	4	5	7	5	4	0	7	03/11/86	Diller	204	67	10/24/84
	AE	4	5	9	1	5	5	0	05/27/88	Hefeman et al.	435	4	04/05/84
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	AG	5	5	8	7	1	2	8	12/24/96	Wilding et al.	422	50	11/14/94
	AH	5	4	9	8	3	9	2	03/12/96	Wilding et al.	422	68.1	09/19/94
	AI	5	8	5	5	7	5	3	01/05/99	Trau et al.	204	484	11/26/96
	AJ	6	0	3	3	5	4	7	03/07/00	Trau et al.	204	622	01/04/99
	AK												

FOREIGN PATENT DOCUMENTS

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	AL	9	6	0	4	5	4	7	02/15/96	PCT	601N	27/00		X
	AM													
	AN													
	AO													
	AP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)
AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262 : 558 - 560 (1993)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449
(REV. 7-80)

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 4

SERIAL NO.: 09/168,413

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 6/24/01

AUG 22 2003

GROUP 1700

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4	7	1	7	6	5	5	01/05/88	Fulwyler	435	7	10/15/84
	AB	5	5	7	3	9	0	9	11/12/96	Singer et al.	435	6	05/20/94
	AC	5	5	8	5	0	6	9	12/17/96	Zanzucchi et al.	422	100	11/10/94
	AD	5	5	9	3	8	3	8	01/14/97	Zanzucchi et al.	435	6	05/31/95
	AE	5	7	2	3	2	1	8	03/03/98	Haugland et al.	428	402	06/07/95
	AF	5	7	4	4	3	0	5	04/28/98	Fodor et al.	435	8	06/06/95
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	AI	5	8	7	4	2	1	9	02/23/99	Rava et al.	435	6	04/09/96
	AJ	5	8	8	8	8	3	5	11/23/99	Dunlay et al.	435	7.2	02/27/97
	AK	8	0	2	3	5	4	0	02/08/00	Walt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

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	AL	9	5	1	2	8	0	8	05/11/95	PCT	G01N	21/00		X
	AM	9	8	0	7	9	1	7	03/14/96	PCT	G01N	35/00		X
	AN	9	7	4	0	3	8	3	10/30/97	PCT	G01N	33/543		X
	AO	9	8	0	6	0	0	7	02/12/98	PCT	G03F	7/00		X
	AP	9	8	5	3	3	0	0	11/26/98	PCT	G01N	21/00		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

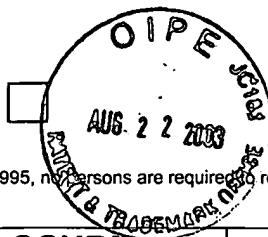
AR	Micheletto et al., <i>Langmuir</i> , vol. 11, 3333-3336 (1995)
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AT	

EXAMINER

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12 of 12

PTO/SB/08A (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known

Application Number:
 Filing Date:
 First Named Inventor:
 Group Art Unit:
 Examiner Name:
 Attorney Docket Number:

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
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		WO 00/75373		Walt, et al.	12/14/2000	

Examiner Signature		Date Considered	
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